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Terms	Documents
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L43		Refine Search
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Set	Name	Query	Hit Count	Set
				Name
side by side				result set
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<u>L43</u>		l26 and (partition\$ same hardware\$ same (firmware\$ or operating system))	1	<u>L43</u>
<u>L42</u>		l26 and partition\$ and hardware\$	1	<u>L42</u>
<u>L41</u>		l26 and (debug\$ near6 partition\$)	1	<u>L41</u>
<u>L40</u>		l24 and (partition\$ or divi\$ or separat\$ or cell\$ or segment\$)	1	<u>L40</u>
<u>L39</u>		l24 and firmware\$	0	<u>L39</u>
<u>L38</u>		l24 and hardwar\$	1	<u>L38</u>
<u>L37</u>		l24 and servic\$	1	<u>L37</u>
<u>L36</u>		L35 and (resum\$ or termin\$)	1	<u>L36</u>
<u>L35</u>		L34 and (enabl\$ or disabl\$) and suspe\$	1	<u>L35</u>
<u>L34</u>		l24 and switch\$	1	<u>L34</u>
<u>L33</u>		l24 and (enabl\$ or disabl\$)	1	<u>L33</u>
<u>L32</u>		l24 and read\$	1	<u>L32</u>

<u>L31</u>	l29 and (exception\$ or notifi\$ or fault\$)	1	<u>L31</u>
<u>L30</u>	l24 and report\$ and event\$	0	<u>L30</u>
<u>L29</u>	l24 and event\$	1	<u>L29</u>
<u>L28</u>	l24 and (call\$ or invok\$) and execut\$	1	<u>L28</u>
<u>L27</u>	L26 and (partition\$ near9 (memory\$ or firmware\$ or rom or bios\$))	1	<u>L27</u>
<u>L26</u>	6684343.pn.	1	<u>L26</u>
<u>L25</u>	L24 and extension\$	1	<u>L25</u>
<u>L24</u>	5889988.pn.	1	<u>L24</u>
<u>L23</u>	l21 and (partition\$ or divi\$ or segment\$)	0	<u>L23</u>
<u>L22</u>	L21 and extension\$ and debug\$ and operating system\$	1	<u>L22</u>
<u>L21</u>	5958049.pn.	1	<u>L21</u>
<u>L20</u>	l16 and (debug\$ or test\$ or diag\$)	1	<u>L20</u>
<u>L19</u>	l16 and (debug\$ and operating system)	1	<u>L19</u>
<u>L18</u>	L16 and partition\$ near6 (firmware\$ or memory\$ or rom\$ or bios)	1	<u>L18</u>
<u>L17</u>	L16 and partition\$	1	<u>L17</u>
<u>L16</u>	6381682.pn.	1	<u>L16</u>
<u>L15</u>	L14 and operating system	7	<u>L15</u>
<u>L14</u>	L13 and debug\$	7	<u>L14</u>
<u>L13</u>	hypervisor\$	118	<u>L13</u>
<u>L12</u>	(debug\$ near4 hypervisor\$)	0	<u>L12</u>
<u>L11</u>	L10 and debug\$	4	<u>L11</u>
<u>L10</u>	(partition near6 firmware\$)	33	<u>L10</u>
<u>L9</u>	(debug\$ of test\$) near5 (partition\$ or divi\$) near5 (firmware\$ or rom or memory\$ or bios\$)	0	<u>L9</u>
<u>L8</u>	(debug\$ of test\$)near5 (partition\$ or divi\$) near5 (firmware\$ or rom or memory\$ or bios\$)	0	<u>L8</u>
<u>L7</u>	debug\$ near5 (partition\$ or divi\$) near5 firmware	0	<u>L7</u>
<u>L6</u>	l1 and (partition\$ or divis\$) near5 (firmware\$ or bios\$ or rom or memory)	1	<u>L6</u>
<u>L5</u>	l2 and (partition\$ or divis\$) near5 (firmware\$ or bios\$ or rom or memory)	0	<u>L5</u>
<u>L4</u>	L3 and (file system extension program)	1	<u>L4</u>
<u>L3</u>	6289448.pn.	1	<u>L3</u>
<u>L2</u>	L1 and (operating system\$ near5 debug\$)	18	<u>L2</u>
<u>L1</u>	extension\$ near5 debug\$	98	<u>L1</u>

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### Search Results -

Terms	Documents
(714/4   714/25   714/733).ccls.	2043

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<u>L4</u>	713/1,200,2.ccls.	2808	<u>L4</u>
<u>L3</u>	711/153,170,149.ccls.	1344	<u>L3</u>
<u>L2</u>	718/100,103.ccls.	967	<u>L2</u>
<u>L1</u>	717/124,126.ccls.	315	<u>L1</u>

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Richard Snodgrass

May 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 2Full text available: [pdf\(3.42 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Monitoring is an essential part of many program development tools, and plays a central role in debugging, optimization, status reporting, and reconfiguration. Traditional monitoring techniques are inadequate when monitoring complex systems such as multiprocessors or distributed systems. A new approach is described in which a historical database forms the conceptual basis for the information processed by the monitor. This approach permits advances in specifying the low-level data collection, ...

## 2 [Illustrative risks to the public in the use of computer systems and related technology](#)

Peter G. Neumann

January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1Full text available: [pdf\(2.54 MB\)](#)Additional Information: [full citation](#)

## 3 [Design challenges of virtual networks: fast, general-purpose communication](#)

Alan M. Mainwaring, David E. Culler

May 1999 **ACM SIGPLAN Notices, Proceedings of the seventh ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 34 Issue 8Full text available: [pdf\(1.57 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Virtual networks provide applications with the illusion of having their own dedicated, high-performance networks, although network interfaces possess limited, shared resources. We present the design of a large-scale virtual network system and examine the integration of communication programming interface, system resource management, and network interface operation. Our implementation on a cluster of 100 workstations quantifies the impact of virtualization on small message latencies and throughput ...

**Keywords:** application programming interfaces, direct network access, high-performance clusters, protocol architecture and implementation, system resource management, virtual networks


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**1** [Debuggable concurrency extensions for standard ML](#)

Andrew P. Tolmach, Andrew W. Appel

 December 1991 **ACM SIGPLAN Notices , Proceedings of the 1991 ACM/ONR workshop on Parallel and distributed debugging**, Volume 26 Issue 12

 Full text available: [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**2** [Procs and locks: a portable multiprocessing platform for standard ML of New Jersey](#)

J. Gregory Morrisett, Andrew Tolmach

 July 1993 **ACM SIGPLAN Notices , Proceedings of the fourth ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 28 Issue 7

 Full text available: [pdf\(976.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


We have built a portable platform for running Standard ML of New Jersey programs on multiprocessors. It can be used to implement user-level thread packages for multiprocessors within the ML language with first-class continuations. The platform supports experimentation with different thread scheduling policies and synchronization constructs. It has been used to construct a Modula-3 style thread package and a version of Concurrent ML, and has been ported to three different mu ...

**3** [Composing first-class transactions](#)

 Nicholas Haines, Darrell Kindred, J. Gregory Morrisett, Scott M. Nettles, Jeannette M. Wing  
 November 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 16 Issue 6

 Full text available: [pdf\(1.07 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)


**Keywords:** Standard ML, modules, persistence, recovery, serializability, skeins, threads, transactions, undoability

**4** [A bibliography of parallel debuggers, 1993 edition](#)

Cherri M. Pancake, Robert H. B. Netzer

 December 1993 **ACM SIGPLAN Notices , Proceedings of the 1993 ACM/ONR workshop on Parallel and distributed debugging**, Volume 28 Issue 12
